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1-29-04      Carrie Reddick  
Date      Signature: Carrie Reddick



**PATENT**

**Attorney Docket No. SSR-001-1**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application	)	<u>PATENT APPLICATION</u>
	)	
Inventor(s): Roy T. Hashimoto	)	
	)	Art Unit: 2621
Application No.: 10/602,996	)	
	)	Examiner: unknown
Filed: 06/23/2003	)	
	)	
Title "REGION SEGMENTATION AND CHARAC-	)	
TERIZATION SYSTEMS AND METHODS	)	
FOR AUGMENTED REALITY"	)	
	)	

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed publication and patent is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.


Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP § 609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56.

- ☒ This statement qualifies under 37 C.F.R. § 1.97, subsection (b) because (check all that apply):
- ☐ (1) It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d)  
-- OR --
  - ☐ (2) It is being filed within 3 months of entry of a national stage  
-- OR --
  - ☒ (3) It is being filed before the mail date of the first Office Action on the merits.  
-- OR --
  - ☐ (4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114
- ☐ 37 C.F.R. § 1.97(c). If this statement is being filed after the period specified in § 1.97(b), but before the mailing date of the earlier of a final office action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, then:
- ☐ a certification as specified in § 1.97(e) is provided below; or
  - ☐ a fee of \$180.00 as set forth in § 1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
- ☐ 37 C.F.R. § 1.97(d). If this statement is being filed after the period specified in § 1.97(c), but on or before payment of the issue fee, then:
- A. a certification as specified in § 1.97(e) is completed below; and
  - B. a fee of \$180.00 as set forth in § 1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
- ☒ *Fee Authorization.* No fee is believe due. However, if a fee is found to be owing, the Commissioner is hereby authorized to charge Deposit Account No. 50-0574 (Docket No. SSR-001-1).

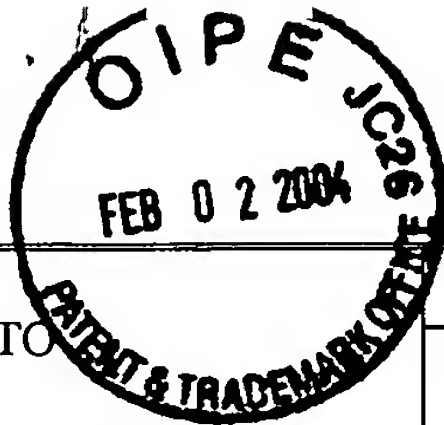
Respectfully submitted,

BEVER, HOFFMAN & HARMS, LLP

By:  Reg # 38,181  
Edward S. Mao, Reg. No. 40,713

Dated: January 29, 2004

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	Application Number	10/602,996
	Filing Date	06/23/2003
	First Named Inventor:	Roy T. Hashimoto
	Examiner name: unknown	GROUP: 2621

Sheet	1	of	1	Attorney Docket Number	SSR-001-1
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### U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		US-			

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Cntry Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T <sup>6</sup>

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Analysis Of Conics", by Kenichi Kanatani, Geometric Computation for Machine Vision, Oxford Univ. Press 1993, pgs. 229-259.
	"Computer Vision Face Tracking For Use in a Perceptual User Interface", by Gary R. Bradski, Microcomputer Research Lab, Intel Corp., pgs. 1-15.
	"Real-time Vision-Based Camera Tracking for Augmented Reality Applications", by Dieter Koller et al., (no date), 8 pgs.
	"Virtual Object Manipulation on a Table-Top AR Environment", by H. Kato et al., (no date), 9 pgs.
	"Computer vision for computer games", by W.T. Freeman et al., Mitsubishi, IEEE 2 <sup>nd</sup> Int'l. Conference On Automatic Face and Gesture Recognition, Killington, VT, 10/1996, 6 pgs.
	"Matrix: A Realtime Object Identification and Registration Method for Augmented Reality", Jun Rekimoto, Sony Computer Science Lab., Inc., (no date), 6 pgs.
	"Superior Augmented Reality Registration by Integrating Landmark Tracking and Magnetic Tracking", by Andrei State, et al., Dept. of Computer Science Univ. of N. Carolina at Chapel Hill, (no date), 10 pgs.
	"Rule-Based Segmentation for Intensity-Adaptive Fiducial Detection", by Jong-Weon Lee et al., Computer Science Dept. Univ. of Southern California, (no date), 9 pgs.
	"Finding Elliptical Shapes in an Image Using a Pyramid Architecture", by A. Kavianpour et al., Univ. of California, Dept. of Electrical and Computer Engineering, Irvine, CA, (no date), pgs. 1-15
	"9.13 Image Segmentation", by Anil K. Jain, Fundamentals of Digital Image Processing, 1987, pgs. 407-414
	"Invariant Descriptors for 3-D Object Recognition and Pose", by David Forsyth et al., 1991 IEEE, pgs. 971-991

EXAMINER SIGNATURE:	DATE CONSIDERED:
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.